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FACULTY AND CLASS REPRESENTATIVES

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O. K. Merritt, Senior — I. V. Giles, Junior
J. S. Murray, Sophomore — F. B. Herty, Freshman

IN MEMORY OF

WILLIAM LEWIS JEFFRIES

ORIGINATOR OF

THE CAROLINA CHEMIST

THIS NUMBER IS
DEDICATED

ALUMNI, ATTENTION!

We have been striving to obtain a list of our alumni, together with data that would give correct information as to addresses and lines of work. This spring return post-cards were sent to every alumnus asking for such information concerning himself. Less than 50 per cent of these cards were returned. We might add, too, that those who returned cards constitute a large majority of those who support The Chemist financially.

We want to urge each and every alumnus to take more interest in The Chemist and lend his support. You are loyal, we know, for once a Carolina man you always have the Tar Heel spirit. Show that you are interested by supporting The Chemist with a contribution either of money or an article for publication—or, better, both.

WHERE ARE THESE MEN?

Can you give us the address of any of the following men? If so, drop us a card. Mail addressed to some of them has been returned and we are unable to get in touch with the others: Belden, L. DeK., '10; Bohannon, E. F., '04; Burns, R. C., '07; Conroy, F. D., '14; Daniels, V. C., '04; Henderson, J., '02;Heord, W. O., '03; Hill, Hubert, '07; Kelly, B. W., —; Klugh, B. G., '01; Lemly, F. H., '02; Moses, A. F., '97; Prior, W. S., Jr., '02; Sifford, Ernest, '05; Smith, W. A., '09; Williard, C. W., '11; Lichenthaler, R. A., '02; Miller, F. W., '98; Sloan, C. H., '06; Tyson, J. J., '06.

THE LIBRARY

The attention of alumni is again called to the appeal recently made for donations for the Library. The loss of certain sets of journals, which are now deposited in the Library, would be a serious blow to research work. You are urgently asked to do your bit toward the acquisition of these journals for the department. And do it now!

A CHEMIST'S VACATION

In *Metallurgical and Chemical Engineering,* January 1, 1917, an account of "A Chemist's Vacation" is given by Edward Hart of Easton, Pa. We give herewith a reproduction of that part of it which is of particular interest to Carolina alumni:

"Visiting time had come. For forty years I had taught and given much of my time to others. Now vacation days had dawned. No longer must I face a round of lectures, quizzes, and the daily drudgeries of the teacher's task. I packed my grip and started South.

* * * * * *

"From Richmond (Va.) I journeyed to Chapel Hill, N. C., to visit my old friend, Dr. F. P. Venable. When I first knew him, Dr. Venable, who is a son of a former professor of mathematics at the University of Virginia, was professor of chemistry at Chapel Hill; then the trustees made him president. For fifteen years he bore this heavy burden and built fourteen buildings; then he asked to be allowed to go back to his first love. To mark their appreciation of his services, the trustees created the Francis P. Venable Professorship of Chemistry and made him the incumbent for life.

"Now he has begun life anew, and with Dr. Bell, a graduate of Dr. Lash Miller of Toronto, has undertaken to redetermine the atomic weight of zirconium.

"North Carolina is a sort of chemical slop jar. In variety of minerals she is not to be excelled on the face of the earth. Zircon is one of these, and the atomic weight of zirconium has never been satisfactorily determined. Venable took me to his laboratory and showed me how he made zirconium chloride, how he had one by one overcome the innumerable difficulties until he now felt sure of ultimate success. I rejoiced with him, and told him what I had been doing. In the evening Dr. Herty came over to see me. Herty is president of the American Chemical Society and is to edit the *Journal of Industrial and Engineering Chemistry*. In my further journey through the Southland I heard much of the Herty turpentine cup. Turpentine is a great industry in the South, and Herty has done good work there.

"The next day was Sunday, and we went to hear a sermon by Mr. Moss in the Presbyterian church. It was a unique sermon—I never heard one like it—full of real meat. In the wall back of the pulpit were four marble tablets. One of these read as follows:

In Memory of

Elisha Mitchell, D.D.,

Born in Connecticut, 1793,
Died on Black Mountain, N. C., 1857.

Professor of Mathematics and of Chemistry, U. N. C.,
1817-1857.

Ordained minister by Orange Presbytery, 1821.
Stated supply of this church for many years.
One of the builders of this house, 1849.

"After service we strolled around the town and admired the fine old houses set back from the streets and the beautiful gardens. The atmosphere reminded me of Oxford—there was the air of friendliness and genial ease though not quite so straight-laced as the Oxford I last saw.

"Some time since, talking with a successful young sculptor, Harry Raul, I said to him, 'Why must we forever continue to reproduce in our architecture the Greek acanthus leaf, the egg and dart, and the walls of Troy? Why not have an architecture of our own in which the Indian corn, the wheat, the strawberry, mullein, the cotton plant, the cypress, and the poplar play a part?' Here I found the answer to my query in the Law building, in which this idea had been carried out with happy effect. It is worthy of further elaboration. Why not have an architecture of our own and discard our slavish following of Greek and Goth?

"In the absence of her mother, Miss Frances Venable presided over the dinner, and Drs. Wheeler and Bell were also guests. We spent the

afternoon telling stories. F. P. is a famous raconteur. His darkey stories are especially good. Dr. Wilson, librarian, who dropped in during the evening, reminded us of the darkey who said apollinaris water tasted like your foot's asleep.

"Next morning I rode my auto to Durham, and then by train to Winston-Salem, where I found two of my old students, J. L. Ludlow, a prosperous civil engineer, and Robert A. Rice, business manager of Salem College. Ludlow is buying spent pyrites from the sulphuric acid companies. It contains 2 per cent sulphur. He roasts it to a content of .05 per cent and at the same time clinkers it and sells the clinkers to the iron blast furnaces. My two hours stop here was soon at an end, and I went back to Greensboro on the way to Atlanta, my next stop. On the way to Greensboro we passed a station called Terra Cotta, where large stacks of the finished product show that the station was properly named. I found everywhere through the South evidences like this of an industrial awakening. Those who think the South still sleeps have not been abroad."

* * * * * *

NECROLOGY

WILLIAM LEWIS JEFFRIES

William Lewis Jeffries was born in Louisville, Ky., October 8, 1889. After attending the preparatory school in Knoxville, Tenn., he entered the Carson-Newman College at Jefferson, Tenn., from which place he received the degree of A.B. at the age of 18. In the fall of 1909 he entered the University of North Carolina, receiving his A.B. from there in 1910 and his A.M. in 1911. While instructor at Carolina he worked and received his Ph.D. in 1915. In the fall of 1915 he went with the Dupont Powder Company as consulting chemist for their By-products Division, which position he held when killed. He was buried in Knoxville, Tenn., March 12, 1917.

On March 9, 1917, he was killed at the plant of the Deerfield Pulp Company, at Wilmington, Vt., while experimenting with nitre cake on the factory scale. He was treating the sluge in a large beater composed chiefly of $CaCO_3$ with $NaHSO_4$ in order to form what is known as "salt cake." His death has been credited to a mixture of H_2S and HCN. It was reported in the papers that chlorine was the cause, but that is impossible, because there was no chlorine used in this plant, as I understand it.—W. N. PRITCHARD, JR.

George Mallett MacNider

George Mallett MacNider was born at Chapel Hill, N. C., November 22, 1884. He attended the Chapel Hill High School and then entered the University of North Carolina, specializing in chemistry and biology, and received the degree of Bachelor of Science in 1904. While in the University he did some research in the rare earths with Dr. Baskerville. After graduation he went to Raleigh as Assistant State Chemist, and was first put in charge of soils, later foodstuffs. While engaged in this work he became interested in starches, and published several papers on this subject. After some years in this work he accepted a position with American Corn Products Refining Company in New York City as a chemical engineer to look after the starch used by the paper mills of the New England States and the cotton mills of the South. One year later he was put in charge of the Southern office of the National Starch Company, Greenville, S. C., which position he held until his death. His work in this position was chiefly that of a consulting engineer and research chemist. Shortly before his death he was engaged in research on starches for textiles at the Exposition Cotton Mills at Atlanta, Ga. On April 17, 1915, he was married to Miss Louise Lamar of Monticello, Fla. He died of pneumonia in a private hospital in Atlanta on February 27, 1917.

DIRECTORY OF THE GRADUATES OF THE DEPARTMENT OF CHEMISTRY, UNIVERSITY OF NORTH CAROLINA

Since the publication of the directory (of the men who have gone out from this laboratory) in the April issue of The Carolina Chemist last year received the hearty approval of many of our alumni, we have decided to make the directory an annual feature of the spring issue.

The names in this directory marked with an asterisk (*) are those who returned the directory information card, thus giving us authoritative information regarding their work and address. The names marked with a dagger (†) are those who could not be located by the postal officials, and consequently their cards were returned to us unclaimed. The address given in these cases is the

last one we have. As for all the other names and addresses in the directory, we know from reliable information that most of them are correct, and probably all are, inasmuch as the postoffice officials did not return the directory information return card undelivered. Any corrections, additional names and addresses and suggestions will be gladly received by the editors.

ALLEN, MISS DAISY, '07.....Raleigh, N. C.
State Laboratories.

ALLEN, W. M., '93.....526 N. Wilmington St., Raleigh, N. C.
State Food and Oil Chemist.

ALLEN, R. T., S.M., '08.....Wadesboro, N. C.
Merchant.

ASBURY, J. J., '00.....Birmingham, Ala.
Chemist, Tennessee Coal and Iron Company.

BASKERVILLE, CHARLES, Ph.D., '94.....New York
Head Department of Chemistry, College of the City of New York.

BATTLE, H. B., Ph.D., '87.....103 S. Court St., Montgomery, Ala.
Battle Laboratory.

BELDEN, A. W., '97.....Woodlawn, Pa.
Superintendent of the Coke Oven Department, Laughlin Steel Company, Alguippa Plant.

BELDEN, L. DEK., '10.....New York City.
Interne Roosevelt Hospital.

BENNETT, H. H., '03.....Washington, D. C.
Bureau of Soils.

BRANSFORD, CHARLES, '06.....Ensley, Ala.
Chemist, Tennessee Coal, Iron and Railroad Company.

BRINKLEY, L. L., '07.....Raleigh, N. C.
State Soil Survey.

BRYAN, P. R., '13.....Box 666, Clairton, Pa.
Carnegie Steel Co.

†BURNS, R. C., '07.....Allens Creek, Tenn.
Bon Air Coal and Iron Co.

*CARTER, C. B., Ph.D., '16.....Pittsburg, Pa.
Fellow in Mellon Institute.

CATLETT, G. F., '03.....Wilmington, N. C.
Chemist and Bacteriologist for the local Board of Health.

*CAUBLE, D. Z., '03.....1501 13th Ave. South, Birmingham, Ala.
Salesman, Industrial Loan and Savings Co.

CHADBOURN, G., '00.....Died 1901.

CLARKE, THOMAS, S.J., '96.....Woodstock, Md.
Woodstock College. Ordained priest, 1915.

CONROY, F. D., '14.....Baltimore, Md.
Medical Student, Johns Hopkins University.

COOPERSMITH, S., '10.....1501 11th St., N. W., Washington, D. C.
Bureau of Chemistry.

COULTER, V. A., Ph. D., '16.....Chapel Hill, N. C.
Instructor in Chemistry, Univ. of N. C.

*COWELL, C. F., '12.....Washington, N. C.
Salesman for the Pamlico Chemical Company.

COX, H. L., '14.....Dover, N. J.
Hercules Powder Company.

*DANCY, F. B., '81.....922 St. Paul St., Baltimore, Md.
Manager, Northern Division of F. S. Royster Guano Co.
Retired September 1, 1916.

DAVIS, R. O. E., Ph.D., '03.....Washington, D. C.
Bureau of Soils.

DICKSON, W. S., '07.....Greensboro, N. C.
City Editor, *Greensboro News.*

DOBBINS, J. T., Ph.D., '14.....West Raleigh, N. C.
Associate Professor of Chemistry, A. and E. College.

*DRANE, F. P., '06.....16 South Church St., Charlotte, N. C.
Analytical and Consulting Chemist.

*EDWARDS, V. C., Ph.D., '15.....Gibstown, N. J.
Research Chemist, DuPont Company.

FARMER, L. J., '16.....Wilson, N. C.
Grocery business.

*FIELD, A. L., '11.....Houston, Texas.
Metallurgist, Gulf Pipe Line Company.

*FLUME, A. J., '14.....47 Lyceum St., Geneva, N. Y.
New York Experiment Station.

*FOUST, THOMAS B., '03.....Clarksville, Tenn.
Operating Clarksville Foundry and Machine Works.

GLENN, M. R., '03.....Deceased

GRAHAM, J. O., A.M., '13.....Lebanon, Tenn.
Professor of Chemistry, Cumberland Universiy.

GRAHAM, N. R., '04.....Died 1914.

*HALL, R. B., '11.....Pittsburg, Pa.
Fellow in Mellon Institute.

HALL, L. C., '16.....San Diego, Cal.
Chemist, Hercules Powder Co.

HARDISON, R. B., '07.....Washington, D. C.
Bureau of Soils.

HARRELL, W. H.....Philadelphia, Pa.
Medical student at University of Pennsylvania.

*HARRIS, I. F.....233 Harrison Ave., New Brunswick, N. J.
Research Chemist, E. R. Squibb & Sons.

HARRIS, J. R., '89.....1230 S. 17th St., Birmingham, Ala.
Chief Chemist, Tennessee Coal, Iron and Railroad Company, Ensley, Ala.

HARRIS, STANFORD, '97.....Deceased

HART, E. B., '13.....Raleigh, N. C.
Department of Agriculture.

*HAYWOOD, W. G., '98.....Raleigh, N. C.
Assistant Chemist, Department of Agriculture.

*HEIDE, S. S., '04.....Box 327, Ensley, Ala.
Assistant Chief Chemist, Tennessee Coal, Iron and Railroad Company.

HENDERSON, J., '02.....201 Devonshire St., Boston, Mass.
Electrical Engineer.

*HENDERSON, J. L., P.D., '15.....Burlington, N. C.
Manager City Drug Company.

HENRY, R., '06.....Richmond, Va.
Virginia-Carolina Chemical Company.

HILL, HAMPDEN, '07.....Bayonne, N. J.
Research Chemist, Texas Oil Company.

HILL, HUBERT, '07.....Baltimore, Md.
Johns Hopkins University.

HOKE, C. B., '13.....Chapel Hill, N. C.
Instructor in Chemistry, University of North Carolina.

*HOLLAND, W. R., '03.....919 Monmouth St., Gloucester City, N. J.
Welsbach Light Company.

HOUCK, W. A., '09.....Ensley, Ala.
Semet-Solvay Products Company.

*HOYLE, A. H., '06.....2122 Avenue H, Ensley, Ala.
Steam Engineer, T. C. I. and R. R. Co.

HUNTER, R. L., '11.....Central Y. M. C. A., Norfolk, Va.

HUNTER, W. S., '07.....Ensley, Ala.
T. C. I. and R. R. Company.

IRWIN, J. P., '04.....Hopewell, Va.
Chemist, DuPont Company.

*JACKSON, J. Q., '08.....Raleigh, N. C.
Department of Agriculture.

JEFFRIES, W. L., Ph.D., '15.....Died, 1917.

JOHNSTON, G. A., '04.....Chapel Hill, N. C.
Farming.

*JORDAN, STROWD, Ph.D., '09.....540 Park Ave., Brooklyn, N. Y.
Research Chemist, American Tobacco Company.

†KELLY, B. W.....Birmingham, Ala.
Chemist, T. C. I. and R. R. Co.

KELLY, F. G., '00.....Ensley, Ala.
Chemist, T. C. I. and R. R. Co.

*KENAN, WM. R., JR., '95.....433 Locust St., Lockport, N. Y.
Vice-President and Treasurer Western Block Company.

KILLIFER, D. H., '15.....Nashville, Tenn.
Chemist, Nashville, Chattanooga and St. Louis Railway.

KING, R. N., '00.....Thomas, Ala.
Republic Iron and Steel Company.

†Klugh, B. A., '01.....1112 Pike St., Seattle, Wash.

*Kluttz, Warren, '99.....Holt, Ala.
Vice-president and General Manager Central Iron and Coal Co.

Knight, B. H., A.M., '13.....50 Mt. Pleasant Ave., West Orange, N. J.
Edison Laboratories.

†Lemly, F. H., '02.....San Antonio, Tex.

*Leonard, G. F., '07, 63 Fifth Ave., Highland Park, New Brunswick, N. J.
Bacteriologist, E. R. Squibb & Sons.

†Lichtenthaler, R. A., '02.....Box 112, Kingston, R. I.
Rhode Island Agricultural Experiment Station.

*Lockhart, L. B., '04.....33½ Auburn Ave., Atlanta, Ga.
Lockhart Laboratory.

MacNider, G. M., '05.....Died 1917.

MacRae, Duncan, '09.....Boston, Mass.
Candidate for degree of Doctor of Philosophy, 1917 ,at Massachusetts Institute of Technology. Major subject, Physical or Theoretical Chemistry.

Manning, I. H., '86.....Chapel Hill, N. C.
Dean of the School of Medicine, U. N. C.

*Marriott, W. M., '04.....Baltimore, Md.
M.D., Cornell, 1910. Associate in the Department of Diseases of Children, Johns Hopkins Medical School.

Miller, C. L., '00.....Birmingham, Ala.
Sheffield Coal and Iron Company.

Miller, C. W., '05.....Ensley, Ala.
Semet Solvay Company.

†Miller, F. W., '98.....Talladega, Ala.
Alabama Coal, Iron and Coke Company.

*Mills, J. E., Ph.D., '01.....Columbia, S. C.
Professor of Chemistry in University of South Carolina.

†Moses, A. F., '97.....LaGrange, Ga.

*Moss, E. G., '02.....Oxford, N. C.
Assistant Director, Experiment Station.

Nash, T. P., '10.....Memphis, Tenn.
Instructor of Chemistry in Medical College.

Oates, W. M., '09.....Tarboro, N. C.

Oldham, W. H., '05.....Box 297, Bessemer, Ala.
Superintendent of Foundry Furnaces, Tennessee Coal, Iron and Railroad Company.

Orr, M., '08.....Charlotte, N. C.
Automobile business.

Paddison, George L., '05.....
Assistant Chemist, University of Mississippi.

*Perry, R. W., '05...care Gunn's Ltd., West Toronto, Ontario, Canada.
Technical Superintendent, Gunn's Ltd.

*Phillips, Wm. B., '77.....507 West 33d St., Austin, Texas.
Mining Engineer, Specialty Oil and Gas.

*PICKETT, O. A., '16.....76 Morris St., Dover, N. J.
Chemist, Hercules Powder Company.

POGUE, J. E., S. M., '07.....University Club, Evanston, Ill.
Geologist, Northwestern University.

†PRIOR, W. S., '02.....Birmingham, Ala.

*PRITCHARD, W. N., JR., '15.....Phillipsdale, R. I.
Cotton Inspector for DuPont Company at River Spinning Company.

*RAWLINGS, L. D., '16.....Wilson, N. C.
Assistant Manager and Secretary Wilson Ice and Fuel Company.

*RHODES, L. B., '13.....Raleigh, N. C.
Assistant Chemist in Food and Oil Division, State Laboratories.

ROBERTS, J. C., '84.....Golden, Col.
Professor in Colorado School of Mines.

ROOT, A. S., '01.....Raleigh, N. C.

RUDISILL, W. A., S.M., '14.....Greenville, Pa.
Professor of Science in Thiel College.

†SIFFORD, ERNEST, '05.....Birmingham, Ala.
Birmingham Testing Laboratory.

*SKINNER, J. J., '03.....Washington, D. C.
Bureau of Plant Industry.

†SLOAN, C. H., '06.....Thomas, Ala.
Republic Iron and Steel Works.

SMITH, W. A., '09.....Home address, Goldsboro, N. C.
Medical student, University of Pennsylvania.

*SOUTHARD, L. G., M.S., '08.....Union, S. C.
Lawyer.

STACEY, L. E., A.M., '13.....North Wilkesboro, N. C.
Chemist, Smoot Tanning Company.

STEM, F. B., '07.....Guantano, Cuba.
Chemist, Guantano Sugar Company.

*STEVENSON, R., '03.....501 W. 110th St., New York.
Assistant Professor of Chemistry, College City of New York.

*STROWD, W. H., '09.....Madison, Wis.
Head of Feed and Fertilizer Control for the State.

STRUTHERS, J. A., '14.....15 Hoogland, Dover, N. J.
Chemist to Hercules Powder Company.

THIES, D. A., '91.....Died 1908.

THORPE, J. B., '03.....Box 614, Gary, Ind.
Chief Chemist, Indiana Steel Company.

*TILLETT, E. N., Student 1909-10.....Timberlake, N. C.
Farming.

TOWNSEND, J., '13.....Boston, Mass.
A. D. Little Laboratories.

*TURRENTINE, J. W., '01.....Washington, D. C.
Bureau of Soils.
†TYSON, J. J., '06.....Ensley, Ala.
Chemist, Tennessee Coal and Iron Company.
VENABLE, C. S., '10.....51 Hemenway St., Boston, Mass.
Candidate for degree of Ph.D., 1917, at Massachusetts Institute of Technology.
*WEAVER, F. R., '13.....Springfield, Ill.
Chemist, Western Cartridge Company.
*WELLER, H. R., '03, care Garrett & Co., Bush Terminals, Brooklyn, N. Y.
Vice-President Garrett & Co.
*WHITAKER, DEB., '93.....Box 383, Santiago, Cuba.
Vice-President and General Manager of the Juragua Iron Company.
WHITAKER, W. A., '04.....Lawrence, Kan.
Teaching Applied Chemistry and Metallurgy in the University of Kansas and directing the Division of State Chemical Research.
*WILKES, J. F., '81.....Charlotte, N. C.
Manager Mecklenburg Iron Works.
WILLIARD, C. W., '11.....Winston-Salem, N. C.

The North Carolina Academy of Science and the North Carolina Section of the American Chemical Society will hold their annual meetings in Chapel Hill April 27-28.

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